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E. Runt
Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/748,061
Applicant : Patrick A. Tresco et al.
Title : COMPOSITION AND METHOD FOR REGULATING THE
ADHESION OF CELLS AND BIOMOLECULES TO
HYDROPHOBIC SURFACES
Filed : December 30, 2003
Docket No. : 2300.2.1.8
Customer No. : 21552

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Transmitted herewith is an Information Disclosure Statement disclosing information which has come to the attention of applicants and/or their attorneys and is being submitted so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56. In accordance with 37 C.F.R. § 1.97(b), the enclosed Statement is being filed within three (3) months of the filing date of the above-identified application or before the mailing date of a first Action on the merits.

Neither applicants nor their attorneys make any representation that any information disclosed herein may be "prior art" within the meaning of that term under 35 U.S.C. § 102 or § 103. Moreover, pursuant to 37 C.F.R. § 1.97, the filing of this Information Disclosure Statement

shall not be construed as a representation that a search has been made or as an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

In accordance with 37 C.F.R. § 1.98, transmitted herewith are:

1. A completed copy of Form PTO/SB/08A "Information Disclosure Statement by Applicant" listing the patents, publications and other information being submitted for consideration; and
2. A legible copy of each patent, publication and other item of information in written form listed on the enclosed Form PTO/SB/08A, except for copies of U.S. patents and published U.S. patent applications which are not required for applications filed after June 30, 2003.

As this application was filed after June 30, 2003, copies of the U.S. patents and published U.S. patent applications listed on the enclosed Form PTO/SB/08A are not required and, therefore, not included herewith.

The patents, publications and other items of information listed on the enclosed PTO/SB/08a were previously cited by and/or submitted to the Patent and Trademark Office in Applicants' prior application Serial No. 09/946,079 (filed September 4, 2001 for "COMPOSITION AND METHOD FOR REGULATING THE ADHESION OF CELLS AND BIOMOLECULES TO HYDROPHOBIC SURFACES"), which is being relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with 37 C.F.R. § 1.98(d), therefore, copies of these patents, publications and other items of information are not being submitted with this Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "E. R. Witt", is written over a horizontal line.

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Attorney for Applicants

Date: March 11, 2004

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/748,061
Filing Date	December 30, 2003
First Named Inventor	Patrick A. Tresco
Group Art Unit	
Examiner Name	
Attorney Docket Number	2300.2.1.8

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	U1	US-6,670,199-B2	12/30/2003	Caldwell et al.	
	U2	US-6,284,503-B1	09/04/2001	Caldwell et al.	
	U3	US-5,728,588-B1	03/17/1998	Caldwell, et al.	
	U4	US-5,567,859-B1	10/22/1996	Emanuele et al.	
	U5	US-5,516,703-B1	05/14/1996	Caldwell et al.	
	U6	US-5,405,618-B1	04/11/1995	Buttery et al.	
	U7	US-5,248,820-B1	09/28/1993	Murtiashaw	
	U8	US-5,219,926-B1	06/15/1993	Lindman et al.	
	U9	US-5,043,278-B1	08/27/1991	Nagaoaka et al.	
	U10	US-5,006,333-B1	04/09/1991	Saifer et al.	
	U11	US-4,929,510-B1	05/29/1990	Ruckenstein, et al.	
	U12	US-4,711,951-B1	12/08/1987	Axen et al.	
	U13	US-4,330,677-B1	05/18/1982	Linke et al.	
	U14	US-4,264,766-B1	04/28/1981	Fischer	
	U15	US-4,259,474-B1	03/31/1981	Chakrabarti et al.	
	U16	US-4,179,337-B1	12/18/1979	Davis et al.	
	U17	US-4,149,003-B1	04/10/1979	Carlsson et al.	
	U18	US-4,048,416-B1	09/13/1977	Axen et al.	
	U19	US-3,966,580-B1	06/29/1976	Janata et al.	

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	F1	WO-95/062519	03/02/1995			
	F2	PCT/US96/259210	08/29/1996			

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> Sheet 2 of 3		Complete if Known	
		Application Number	10/748,061
		Filing Date	December 30, 2003
		First Named Inventor	Patrick A. Tresco
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	2300.2.1.8

F3	WO-9616541	06/06/1996		
F4	WO-9615223	05/23/1996		
F5	WO-9604924	02/22/1996		
F6	WO-92/16555	10/01/1992		
F7	WO-89/01033	02/09/1989		
F8	EP-215,456	03/25/1987		
F9	EP-98,110	01/11/1984		
F10	EP-11,237	05/28/1980		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	O1	Li et al., "Chemical Modification of Surface Active Poly (ethylene oxide) - Poly (propylene oxide) Triblock Copolymers," Bioconjugate Chem., 1996 7, 592-99	
	O2	Kioukia et al., "Influence of Agitation and Sparging on the Growth Rate and Infection of Insect Cells in Bioreactors and a Comparison with Hybridoma Culture," Biotechnology Program, 1996, 12 (6) 779-785	
	O3	Johnston, "Adsorption of Recombinant Human Granulocyte Colony Stimulating Factor (rhG-CSF) to Polyvinyl Chloride, Polypropylene, and Glass: Effect of Solvent Additives" Journal Of Pharmacy Science Technology, 1996, 50 (4) 238-245	
	O4	Topchieva, "Conjugates of Proteins with Block Polymers of Ethylene Oxide and Propylene Oxide," Chemistry Modif. Enzymes, 1996, 637-654	
	O5	Li et al., "Plasma Protein Interactions with Pluronic-Treated Colloids," Colloids Surf., 1996, 7 (1/2) 9-22	
	O6	Jansen et al., "Coadsorption of Steroids and Nonionic Surfactants on Polystyrene Latex Particles from Aqueous Solutions," Journal of Colloid Interface Science., 1996, 179 (2), 578-586	
	O7	Edwards, et al. "Effects of Pluronic F-68 (Poloxamer 188) on Platelet Aggregation in Human Whole Blood," Thromb. Res., 1996, 81 (4) 511-12.	
	O8	Dewez et al.; "Coupled Influence of Substratum Hydrophilicity and Surfactant on Epithelial Cell Adhesion", Journal of Biomedical Material Research, 1996, 30 (3) 373-78	
	O9	Efremova et al., "Conjugates of A-Chymotrypsin with Poly (alkylene oxides) in Hydrated Reversed Micelles", Biokhimiya, (Moscow), 1996, 61(1) 160-169	
	O10	Dewez et al., "Coupled Influence of Substratum Hydrophilicity and Surfactant on Epithelial Cell Adhesion", Journal of Biomedical Materials Res., 1996, 30 (3) 373-383	
	O11	McPherson, et al., "Analysis of the Prevention of Protein Adsorption by Steric Repulsion Theory", ACS Symp. Ser., 1995, 602 (Proteins at Interfaces 2), 395-404	

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		Examiner Name	
		Attorney Docket Number	2300.2.1.8
(use as many sheets as necessary)			
Sheet	3	of	3

O12	Lowe et al., "Enhanced Protoplast Growth at the Interface Between Oxygenated Fluorocarbon Liquid and Aqueous Culture Medium Supplemented with Pluronic F-68," Artificial Cells, Blood Substitutes, Immobilization Biotechnology, 1995, 23(3), 417-422	
O13	Yan et al., "Calorimetric Observations of Protein Conformation at Solid-Liquid Interfaces", Protein Conformation at Solid-Liquid Interfaces, 1995, 257-268	
O14	Topchieva et al., "Conjugates of Proteins with Block Co-Polymers of Ethylene and Propylene Oxides," Biotechnol. Genet. Eng. Rev., 1994, Volume date 1994, 12, 357-382	
O15	Armstrong et al., "Protein Adsorption to Potential Drug Targeting System," Proc. Int. Symp. Controlled Release Bioact. Mater., 1994, 21 st , 182-83	
O16	Schroen et al., "Membrane Modification to Avoid Wettability Changes Due to Protein Adsorption in an Emulsion/Membrant Bioractor," Journal of Membrane Science, 80, 1993, 265-274	
O17	Rudt et al., "In Vitro Phagocytosis Assay of Nano- and Microparticles by Chemiluminescence, II. Effect of Surface Modification by Coating of Particles with Poloxamer on the Phagocytic Uptake," Journal of Controlled Release, 25, 1993, pp. 51-59.	
O18	Zhang et al., "Effect of Pluronic F-68 on the Mechanical Properties of Mammalian Cells", Enzyme Microb. Technol. 1992, 14(12), 980-83.	
O19	Al-Rubeai, et al. "The Effect of Pluronic F-68 on Hybridoma Cells in Continuous Culture," Appl. Microbiol. Biotechnol., 1992, 37(1), 44-45	
O20	Brinkley, "A Brief Survey of Methods for Preparing Protein Conjugates with Dyes, Haptens, and Cross-Linking Reagents," Bioconjugate Chem. 1992, 3, pp. 2-13.	
O21	Tiberg et al., "Immobilization of Protein to Surface-Grafted PEO/PPO Block Copolymers", Colloid & Polymer Science, 270m 1992, 1188-93	
O22	Li et al., "Size Analysis of a Block Copolymer-Coated Polystyrene Latex," American Chemical Society, 1991, Chapter 16, 246-262	
O23	Schumpp et al., "Optimization of Culture Conditions for High Cell Density Proliferation of HL-60 Human Promyelocytic Leukemia Cells," Journal of Cell Science, 1990, 97 (4), 639-647	
O24	Lee et al., "Protein-Resistant Surfaces Prepared by PEO-Containing Block Copolymer Surfactants," Journal of Biomedical Materials Research, Vol. 23, 1989, 351-368	
O25	Carlsson et al., "Protein Thiolation and Reversible Protein-Protein Conjugation," BioChem Journal 173, 1978, 723-737	
O26	Kabakoff, "Chemical Aspects of Enzyme-Immunoassay," Enzyme-Immunoassay, Chapter 4, 71-105	
O27	Li, Janq-Thun, "Plasma Protein Interactions with Copolymer-Stabilized Colloids," Dissertation Abstracts International, Vol. 54, No. 78, 3735 (1993)	
O28	Kirilova, G.P., et al. "The Influence of Pluronics and Their Conjugates with Proteins on the Rate of Oxygen Consumption by Liver Mitochondria and Thymus Lymphocytes." Biotechnol., Appl. Biochem., Vol. 18, No. 3 329-339 (1993)	

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